

[illegible]

```
SSSSSSSS  NN    NN  DDDDDDDD  EEEEEEEEE  RRRRRRRR  LL
SSSSSSSS  NN    NN  DDDDDDDD  EEEEEEEEE  RRRRRRRR  LL
SS    NN    NN    DD    DD  EE    RR    RR  LL
SS    NN    NN    DD    DD  EE    RR    RR  LL
SS    NNNN  NN    DD    DD  EE    RR    RR  LL
SS    NNNN  NN    DD    DD  EE    RR    RR  LL
SSSSSS  NN  NN  DD    DD  EEEEEEE  RRRRRRR  LL
SSSSSS  NN  NN  DD    DD  EEEEEEE  RRRRRRR  LL
SS    NN  NNNN  DD    DD  EE    RR    RR  LL
SS    NN  NNNN  DD    DD  EE    RR    RR  LL
SS    NN  NN    DD    DD  EE    RR    RR  LL
SSSSSSSS  NN    NN  DDDDDDDD  EEEEEEEEE  RR    RR  LLLLLLLLLL
SSSSSSSS  NN    NN  DDDDDDDD  EEEEEEEEE  RR    RR  LLLLLLLLLL
```

```
LL    IIIIII  SSSSSSSS
LL    IIIIII  SSSSSSSS
LL    II     SS
LL    II     SS
LL    II     SS
LL    II     SS
LL    II     SSSSSS
LL    II     SSSSSS
LL    II     SS
LL    II     SS
LL    II     SS
LL    II     SS
LL    IIIIII  SSSSSSSS
LL    IIIIII  SSSSSSSS
```

```
0001 0 MODULE SNDRL (  
0002 0     LANGUAGE (BLISS32),  
0003 0     IDENT = 'V04-000'  
0004 0 ) =  
0005 1 BEGIN  
0006 1  
0007 1  
0008 1 *****  
0009 1 *  
0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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0027 1 *  
0028 1 *****  
0029 1  
0030 1  
0031 1 ++  
0032 1  
0033 1 FACILITY: F11ACP Structure Level 1  
0034 1  
0035 1 ABSTRACT:  
0036 1  
0037 1     This routine sends a message to the error logger to inform it of a  
0038 1     volume mount or dismount.  
0039 1  
0040 1 ENVIRONMENT:  
0041 1  
0042 1     STARLET operating system, including privileged system services  
0043 1     and internal exec routines.  
0044 1  
0045 1 --  
0046 1  
0047 1  
0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 23-Jun-1978 18:47  
0049 1  
0050 1 MODIFIED BY:  
0051 1  
0052 1     V03-001 LMP0221 L. Mark Pilant, 27-Mar-1984 14:46  
0053 1     Change UCB$$_OWNUIC to ORB$$_OWNER and UCB$$_VPROT to  
0054 1     ORB$$_PROT.  
0055 1  
0056 1     A0101 ACG0113 Andrew C. Goldstein, 15-Jan-1980 22:58  
0057 1     Fill in volume set data in error log message
```



SNDRL  
V04-000

1 8  
16-Sep-1984 01:16:43  
14-Sep-1984 12:30:48

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11X.SRC]SNDRL.B32;1 Page 2 (1)

```

58 0058 1 |
59 0059 1 |
60 0060 1 | A0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 20:03
61 0061 1 | Previous revision history moved to F11A.REV
62 0062 1 | **
63 0063 1 |
64 0064 1 | LIBRARY 'SYSS$LIBRARY:LIB.L32';
65 0065 1 | REQUIRE 'SRC$FCPDEF.B32';
66 1056 1 |
67 1057 1 |
68 1058 1 | This routine is called at raised IPL and must be locked into the working set.
69 1059 1 |
70 1060 1 |
71 1061 1 | LOCK_CODE;
```

```

1062 1 GLOBAL ROUTINE SEND_ERRLOG (MODE, UCB) =
1063 1
1064 1 ++
1065 1
1066 1 FUNCTIONAL DESCRIPTION:
1067 1
1068 1     This routine sends a message to the error logger to inform it of a
1069 1     volume mount or dismount.
1070 1
1071 1
1072 1 CALLING SEQUENCE:
1073 1     SEND_ERRLOG (ARG1, ARG2)
1074 1
1075 1 INPUT PARAMETERS:
1076 1     ARG1: 1 to signal mount
1077 1           0 to signal dismount
1078 1     ARG3: address of UCB
1079 1
1080 1 IMPLICIT INPUTS:
1081 1     NONE
1082 1
1083 1 OUTPUT PARAMETERS:
1084 1     NONE
1085 1
1086 1 IMPLICIT OUTPUTS:
1087 1     NONE
1088 1
1089 1 ROUTINE VALUE:
1090 1     1
1091 1
1092 1 SIDE EFFECTS:
1093 1     Message sent to error logger
1094 1
1095 1 --
1096 1
1097 2 BEGIN
1098 2
1099 2 MAP
1100 2     UCB          : REF BBLOCK;    ! UCB argument
1101 2
1102 2 LINKAGE
1103 2     L_ERL_ALLOC  = JSB (REGISTER = 1) :
1104 2                   GLOBAL (ADDRESS = 2)
1105 2                   NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11);
1106 2
1107 2     L_ERL_RELEASE = JSB (REGISTER = 2) :
1108 2                   NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11);
1109 2
1110 2 LOCAL
1111 2     ORB          : REF BBLOCK,    ! local address of ORB
1112 2     MSG_BUFFER   : REF BBLOCK;    ! other buffer pointer to dodge MOVC
1113 2
1114 2 EXTERNAL ROUTINE
1115 2     ERL$ALLOCMB  : L_ERL_ALLOC ADDRESSING MODE (GENERAL);
1116 2                   ! allocate error log buffer
1117 2     ERL$RELEASEMB : L_ERL_RELEASE ADDRESSING MODE (GENERAL);
1118 2                   ! release error log buffer
129

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```

130 1119 2
131 1120 2
132 1121 2 ! Allocate an error log buffer. If this fails, forget it.
133 1122 2 !
134 1123 2
135 1124 2 BEGIN
136 1125 2 GLOBAL REGISTER
137 1126 2 ADDRESS = 2 : REF BBLOCK; ! pointer to error log buffer
138 1127 2
139 1128 2 IF NOT ERL$ALLOCEMB (EMBSK_VM_LENGTH)
140 1129 2 THEN RETURN 1;
141 1130 2 MSG_BUFFER = .ADDRESS;
142 1131 2 END;
143 1132 2
144 1133 2 ! Now fill in the message buffer.
145 1134 2 !
146 1135 2
147 1136 2 IF .MODE
148 1137 2 THEN MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VM
149 1138 2 ELSE MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VD; ! log entry type
150 1139 2
151 1140 2 ORB = .UCB[UCBSL_ORB];
152 1141 2 MSG_BUFFER[EMBSL_VM_OWNUIC] = .ORB[ORB$OWNER];
153 1142 2 MSG_BUFFER[EMBSL_VM_ERRCNT] = .UCB[UCBSW_ERRCNT];
154 1143 2 MSG_BUFFER[EMBSL_VM_OPRCNT] = .UCB[UCBSL_OPCNT];
155 1144 2 MSG_BUFFER[EMBSW_VM_UNIT] = .UCB[UCBSW_UNIT];
156 1145 2
157 1146 2 MSG_BUFFER[EMBSW_VM_VOLNUM] = 0;
158 1147 2 MSG_BUFFER[EMBSW_VM_NUMSET] = 0;
159 1148 2
160 1149 2 CH$MOVE (. (BBLOCK [.UCB[UCBSL_DDB], DDB$NAME]) <0,8> + 1,
161 1150 2 BBLOCK [.UCB[UCBSL_DDB], DDB$NAME],
162 1151 2 MSG_BUFFER[EMBSB_VM_NAMLNG]);
163 1152 2
164 1153 2 IF .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_FOR]
165 1154 2 OR NOT .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_SQD]
166 1155 2 THEN
167 1156 2 BEGIN
168 1157 2 LOCAL
169 1158 2 VCB : REF BBLOCK, ! address of volume control block
170 1159 2 RVT : REF BBLOCK; ! address of relative volume table
171 1160 2
172 1161 2 VCB = .UCB[UCBSL_VCB];
173 1162 2 IF .VCB[VCBSW_RVN] NEQ 0
174 1163 2 THEN
175 1164 2 4 BEGIN
176 1165 2 4 RVT = .VCB[VCBSL_RVT];
177 1166 2 4 MSG_BUFFER[EMBSW_VM_VOLNUM] = .VCB[VCBSW_RVN];
178 1167 2 4 MSG_BUFFER[EMBSW_VM_NUMSET] = .RVT[RVT$B_NVOLS];
179 1168 2 4 END;
180 1169 2 CH$MOVE (VCB$S_VOLNAME,
181 1170 2 BBLOCK [.UCB[UCBSL_VCB], VCB$T_VOLNAME],
182 1171 2 MSG_BUFFER[EMBSB_VM_LABEL]);
183 1172 2 END
184 1173 2 ELSE
185 1174 2 BEGIN
186 1175 2 LOCAL

```



```

187      1176      MVL          : REF BBLOCK,      ! magtape volume labels
188      1177      MVL_ENTRY    : REF BBLOCK,      ! address of label entry
189      1178      RUN          : REF BBLOCK,      ! relative unit number
190      1179      RVT          : REF BBLOCK,      ! relative volume table
191      1180      UCBLIST       : REF VECTOR,      ! address of UCB list
192      1181      VCB          : REF BBLOCK;      ! volume control block
193      1182      VCB = .UCB[UCB$L_VCB];
194      1183      RVT = .VCB[VCB$L_RVT];
195      1184      UCBLIST = RVT[RVT$L_UCBLST];
196      1185      MVL = .VCB[VCB$L_MVL];
197      1186      MSG_BUFFER[EMB$W_VM_NUMSET] = .MVL[MVL$B_NVOLS]; ! no of volumes in vol set known
198      1187      CH$FILL(' ',VCB$S_VOLNAME,MSG_BUFFER[EMB$T_VM_LABEL]);
199      1188      INCR I FROM 0 TO .RVT[RVT$B_NVOLS] - 1 DO
200      1189      BEGIN
201      1190      RUN = .I;
202      1191      IF .UCBLIST[I] EQL .VCB THEN EXITLOOP;
203      1192      END;
204      1193      MVL_ENTRY = .MVL + MVL$K_FIXLEN;
205      1194      INCR I FROM 0 TO .MVL[MVL$B_NVOLS] - 1 DO
206      1195      BEGIN
207      1196      IF .MVL_ENTRY[MVL$B_RVN] EQL .RUN
208      1197      AND .MVL_ENTRY[MVL$B_MOUNTED]
209      1198      THEN
210      1199      BEGIN
211      1200      MSG_BUFFER[EMB$W_VM_VOLNUM] = .I + 1;
212      1201      CH$COPY(MVL$S_VOLLBL,MVL_ENTRY[MVL$T_VOLLBL],' ',
213      1202      VCB$S_VOLNAME,MSG_BUFFER[EMB$T_VM_LABEL]);
214      1203      EXITLOOP;
215      1204      END;
216      1205      MVL_ENTRY = .MVL_ENTRY + MVL$K_LENGTH;
217      1206      END;
218      1207      END;
219      1208      ! Finally release the buffer and make the entry.
220      1209      !
221      1210      !
222      1211      ERL$RELEASEMB (.MSG_BUFFER);
223      1212      !
224      1213      RETURN 1;
225      1214      !
226      1215      !
227      1216      END;

```

! end of routine SEND\_ERRLOG

```

.TITLE SNDRL
.IDENT \V04-000\

.EXTRN ERL$ALLOCMB, ERL$RELEASEMB

.PSECT $LOCKEDC1$,NOWRT,2

.ENTRY SEND_ERRLOG, Save R2,R3,R4,R5,R6,R7,R8,R9,- : 1062
R10
MOV#62, R1 : 1128
JSB ERL$ALLOCMB
BLBS R0, 1$
BRW 14$
MOV#ADDRESS, MSG_BUFFER : 1130

```

```

07FC 00000
51 00000000G 3E DO 00002
03 50 E8 0000B
00F4 31 0000E
59 52 DO 00011 1$:

```

			07	04	AC	E9	00014	BLBC	MODE, 2\$	1136
		04	A9	40	8F	9B	00018	MOVZBW	#64, 4(MSG_BUFFER)	1137
					05	11	0001D	BRB	3\$	
		04	A9	41	8F	9B	0001F	MOVZBW	#65, 4(MSG_BUFFER)	1138
			50	08	AC	D0	00024	MOVL	UCB, R0	1140
			50	1C	A0	D0	00028	MOVL	28(R0), ORB	
		10	A9		60	D0	0002C	MOVL	(ORB), 16(MSG_BUFFER)	1141
			50	08	AC	D0	00030	MOVL	UCB, R0	1142
		14	A9	0082	C0	3C	00034	MOVZWL	130(R0), 20(MSG_BUFFER)	
			50	08	AC	D0	0003A	MOVL	UCB, R0	1143
		18	A9	70	A0	D0	0003E	MOVL	112(R0), 24(MSG_BUFFER)	
			50	08	AC	D0	00043	MOVL	UCB, R0	1144
		1C	A9	54	A0	B0	00047	MOVW	84(R0), 28(MSG_BUFFER)	
				2E	A9	D4	0004C	CLRL	46(MSG_BUFFER)	1146
			50	08	AC	D0	0004F	MOVL	UCB, R0	1149
			50	28	A0	D0	00053	MOVL	40(R0), R0	
			51	14	A0	9A	00057	MOVZBL	20(R0), R1	
					51	D6	0005B	INCL	R1	
1E	A9	14	A0		51	28	0005D	MOVCL	R1, 20(R0), 30(MSG_BUFFER)	1151
			51	08	AC	D0	00063	MOVL	UCB, R1	1161
			50	08	AC	D0	00067	MOVL	UCB, R0	1153
	27	38	05	3B	A0	E8	0006B	BLBS	59(R0), 4\$	
			A0		05	E0	0006F	BBS	#5, 56(R0), 6\$	1154
			50	34	A1	D0	00074	MOVL	52(R1), VCB	1161
				0E	A0	B5	00078	TSTW	14(VCB)	1162
					0E	13	0007B	BEQL	5\$	
			51	20	A0	D0	0007D	MOVL	32(VCB), RVT	1165
		2E	A9	0E	A0	B0	00081	MOVW	14(VCB), 46(MSG_BUFFER)	1166
		30	A9	08	A1	9B	00086	MOVZBW	11(RVT), 48(MSG_BUFFER)	1167
			50	08	AC	D0	0008B	MOVL	UCB, R0	1170
			50	34	A0	D0	0008F	MOVL	52(R0), R0	
32	A9	14	A0		0C	28	00093	MOVCL	#12, 20(R0), 50(MSG_BUFFER)	1171
					61	11	00099	BRB	13\$	1153
			50	34	A1	D0	0009B	MOVL	52(R1), VCB	1182
			56	20	A0	D0	0009F	MOVL	32(VCB), RVT	1183
			58	44	A6	9E	000A3	MOVAB	68(R6), UCBLIST	1184
			57	34	A0	D0	000A7	MOVL	52(VCB), MVL	1185
		30	A9	0B	A7	9B	000AB	MOVZBW	11(MVL), 48(MSG_BUFFER)	1186
OC	20		6E		00	2C	000B0	MOVCL	#0, (SP), #32, #12, 50(MSG_BUFFER)	1187
				32	A9		000B5			
			51	0B	A6	9A	000B7	MOVZBL	11(RVT), R1	1188
			50		01	CE	000BB	MNEGL	#1, I	1191
					0A	11	000BE	BRB	8\$	
			5A		50	D0	000C0	MOVL	I, RUN	1190
		08	AC		6840	D1	000C3	CMPL	(UCBLIST)[I], UCB	1191
					04	13	000C8	BEQL	9\$	
			50		51	F2	000CA	AOBLSS	R1, I, 7\$	1188
		F2	58	24	A7	9E	000CE	MOVAB	36(R7), MVL_ENTRY	1193
			57	0B	A7	9A	000D2	MOVZBL	11(MVL), R7	1194
			56		01	CE	000D6	MNEGL	#1, I	
					1D	11	000D9	BRB	12\$	
SA	06	A8	08		00	ED	000DB	CMPZV	#0, #8, 6(MVL_ENTRY), RUN	1196
					12	12	000E1	BNEQ	11\$	
			0E	07	A8	E9	000E3	BLBC	7(MVL_ENTRY), 11\$	1197
			56		01	A1	000E7	ADDW3	#1, I, 46(MSG_BUFFER)	1200
OC	2E	A9	68		06	2C	000EC	MOVCL	#6, (MVL_ENTRY), #32, #12, 50(MSG_BUFFER)	1202
				32	A9		000F1			



SNDRL  
V04-000

N 8  
16-Sep-1984 01:16:43  
14-Sep-1984 12:30:48

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11X.SRC]SNDRL.B32;1

Page 7  
(2)

DF

58  
56  
52  
50 00000000G

07 11 000F3  
08 C0 000F5 11\$:  
57 F2 000F8 12\$:  
59 D0 000FC 13\$:  
00 16 000FF  
01 D0 00105 14\$:  
04 00108

BRB 13\$  
ADDL2 #8, MVL ENTRY  
AOBLSS R7, 1, T0\$  
MOVL MSG BUFFER, R2  
JSB ERL\$RELEASEMB  
MOVL #1, R0  
RET

: 1199  
: 1205  
: 1194  
: 1212  
: 1214  
: 1216

; Routine Size: 265 bytes, Routine Base: \$LOCKEDC1\$ + 0000

: 228 1217 1  
: 229 1218 1 END  
: 230 1219 0 ELUDOM

### PSECT SUMMARY

Name	Bytes	Attributes
\$LOCKEDC1\$	265	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

### Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	54	0	1000	00:02.0

### COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:SNDRL/OBJ=OBJ\$:SNDRL MSRC\$:SNDRL/UPDATE=(ENH\$:SNDRL)

; Size: 265 code + 0 data bytes  
; Run Time: 00:12.6  
; Elapsed Time: 00:25.5  
; Lines/CPU Min: 795  
; Lexemes/CPU-Min: 26396  
; Memory Used: 178 pages  
; Compilation Complete



0173 AH-BT13A-SE  
VAX/VMS V4.0

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FAL

FAL  
MAP

SELVOL  
LIS

DAPDEF  
MOL

SMALOC  
LIS

SNOBAD  
LIS

SWTUL  
LIS

WITURN  
LIS